

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

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1. (Currently Amended) A composition of matter comprising a polyurethane elastomer having improved abrasion resistance with no significant loss in friction prepared by mixing

- A) a polyurethane prepolymer,
- B) a curative, and
- C) a liquid, non-reactive polydimethylsiloxane,

wherein C) is present in a concentration of about 0.5 to about 25 % based on the combined weight of A) plus B),  
and curing the mixture to form the elastomer.

2. (Original) The composition of claim 1 wherein the polyurethane prepolymer is prepared from a diisocyanate selected from the group consisting of paraphenylene diisocyanate, tolidene diisocyanate, isophorone diisocyanate, 4,4'-methylene bis (phenylisocyanate), toluene-2,4- diisocyanate, toluene-2,6-diisocyanate, naphthalene-1,5- diisocyanate, diphenyl-4,4'- diisocyanate, dibenzyl-4,4'-diisocyanate, stilbene-4,4'-diisocyanate, benzophenone-4,4'- diisocyanate, 1,3- and 1,4-xylene diisocyanates, 1,6-hexamethylene diisocyanate, 1,3- cyclohexyl diisocyanate, 1,4-cyclohexyl diisocyanate, the three geometric isomers of 1,1'- methylene-bis(4-isocyanatocyclohexane), and mixtures of the foregoing.

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3. (Original) The composition of claim 2 wherein the diisocyanate is reacted with a polyol selected from the group consisting of polyether polyols, polyester polyols, and hydrocarbon polyols, having a number average molecular weight of at least 250.
4. (Original) The composition of claim 3 wherein the polyol is a polyalkyleneether polyol represented by the general formula  $\text{HO}(\text{RO})_n\text{H}$ , wherein R is an alkylene radical and n is an integer large enough that the polyether polyol has a number average molecular weight of at least 250.
5. (Original) The composition of claim 1 wherein the curative is selected from the group consisting of diamines, polyols, and blends thereof having a melting point below 140° C.
6. (Original) The composition of claim 5 wherein the curative is selected from the group consisting of 1,4-butanediol, hydroquinone-bis-hydroxyethyl ether, 1,4-cyclohexane dimethanol, trimethylolpropane, aliphatic tetrols, 4,4'-methylenedianiline, 2,2',5-trichloro-4,4'-methylenediamines, naphthalene-1,5-diamine, ortho, meta, and para-phenylene diamines, toluene-2,4-diamine, dichlorobenzidine, diphenylether-4,4'-diamine, 4,4'-methylene-bis(3-chloroaniline), 4,4'-methylene-bis(3-chloro-2,6-diethylaniline), diethyl toluene diamine, tertiary butyl toluene diamine, dimethylthio-toluene diamine, trimethylene glycol di-p-amino-benzoate, 1,2-bis(2-aminophenylthio)ethane, and methylenedianiline-sodium chloride complex, including the derivatives and mixtures of the foregoing.

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7. (Currently Amended) A method for producing a polyurethane elastomer having improved abrasion resistance with no significant loss in friction comprising the steps of:

A) mixing:

- 1) a polyurethane prepolymer,
- 2) a curative, in sufficient amount to cure the polyurethane prepolymer,

and

- 3) a non-reactive, liquid polydimethylsiloxane,

a' wherein 3) is present in a concentration of from about 0.5% to about 25% based on the weight of 1) plus 2), and

B) curing the polyurethane prepolymer to yield the elastomer.

8. (Original) The method of claim 7 wherein the polyurethane prepolymer is prepared from a diisocyanate selected from the group consisting of paraphenylene diisocyanate, tolidene diisocyanate, isophorone diisocyanate, 4,4'-methylene bis (phenylisocyanate), toluene-2,4- diisocyanate, toluene-2,6-diisocyanate, naphthalene-1,5- diisocyanate, diphenyl-4,4'- diisocyanate, dibenzyl-4,4'-diisocyanate, stilbene-4,4'-diisocyanate, benzophenone-4,4'- diisocyanate, 1,3- and 1,4-xylene diisocyanates, 1,6-hexamethylene diisocyanate, 1,3-cyclohexyl diisocyanate, 1,4-cyclohexyl diisocyanate, the three geometric isomers of 1,1'- methylene-bis(4-isocyanatocyclohexane), and mixtures of the foregoing

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9. (Original) The method of claim 8 wherein the diisocyanate is reacted with a polyol selected from the group consisting of polyether polyols, polyester polyols, and hydrocarbon polyols, having a number average molecular weight of at least 250.

10. (Original) The method of claim 9 wherein the polyol is a polyalkyleneether polyol represented by the general formula  $\text{HO}(\text{RO})_n\text{H}$ , wherein R is an alkylene radical and n is an integer large enough that the polyether polyol has a number average molecular weight of at least 250.

a' 11. (Original) The method of claim 7 wherein the curative is selected from the group consisting of diamines, polyols, and blends thereof having a melting point below 140° C.

12. (Original) The method of claim 11 wherein the curative is selected from the group consisting of 1,4-butanediol, hydroquinone-bis-hydroxyethyl ether, 1,4-cyclohexane dimethanol, trimethylolpropane, aliphatic tetrols, 4,4'-methylenedianiline, 2,2',5-trichloro-4,4'-methylenediamines, naphthalene-1,5-diamine, ortho, meta, and para-phenylene diamines, toluene-2,4-diamine, dichlorobenzidine, diphenylether-4,4'-diamine, 4,4'-methylene-bis(3-chloroaniline), 4,4'-methylene-bis(3-chloro-2,6-diethylaniline), diethyl toluene diamine, tertiary butyl toluene diamine, dimethylthio-toluene diamine, trimethylene glycol di-p-amino-benzoate, 1,2-bis(2-aminophenylthio)ethane, and methylenedianiline-sodium chloride complex, including the derivatives and mixtures of the foregoing.

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13. (Original) An article of manufacture comprising a polyurethane elastomer and about 0.5% to about 25% based on the weight of the elastomer of a non-reactive, liquid polydimethylsiloxane, whereby the abrasion resistance of the article is improved with no significant loss in friction.

14. (Original) The article of manufacture of claim 13 wherein the article is a railroad side bearing pad.

a'  
15. (Original) The article of manufacture of claim 13 wherein the article is a skate wheel.

16. (Original) The article of manufacture of claim 13 wherein the article is a tire.

17. (Original) The article of manufacture of claim 13 wherein the article is a track pad.

18. (Original) The article of manufacture of claim 13 wherein the article is an elastomeric friction brake.

19. (Original) The article of manufacture of claim 13 wherein the article is a scraper blade.